The computer lab is in **Neckers 258** (2 doors from my office). This handout is for the *Minitab* software. A student version can be purchased. The lab is not open on weekends or holidays, but Math majors have a key.

1) Double click on the Minitab icon. (Or Type minitab in the search window near the lower left icon.) Some computers do not have *Minitab*.

2) In a few seconds, the Minitab session and worksheet windows fill the screen. At the top of the screen there is a menu.

3) Enter the Stores data set in columns C1 to C5 Under25k is the label for C1. See http://parker.ad.siu.edu/Olive/M485SASRhw.txt.

```
Under25K  25KTo35K 35KTo50K 50KTo75K 75K&Over
14          10        24        12        3
21          22        29        15        3
11          8         14        17       14
13          10        23        15       13
```

4) The worksheet window will now be filled with data. The top of the screen has a menu. Go to "Stat" and drag down "Tables" Another window will appear: drag down "Chi-square test for Association" (write this as
Stat>Tables>Chi-square test for Association).

5) A window will appear. Change "Raw data (categorical variables)" to "Summarized data in a two-way table." Click on the "Columns containing the table" box, and enter columns C1) - C5). Click on "OK". You should get a 4 by 5 table with totals, the Chi-sq statistic = X^2 and pvalue. The table headers should be Under25K, 25kTo35K, 35KTo50K, 50KTo75K, 75K&Over, and Total.

6) Copy and paste the output into *Word*.

The table shows the number of individuals who last bought jeans from 4 major stores, classified by the individuals' yearly income. In HW 4, you will use a 4 step test and the Minitab output to determine if there is a relationship between income and the stores.

To get out of Minitab, move your curser to the "x" in the NE corner of the screen. When asked whether to save changes, click on "no."

Feel free to get help from other students. I would be grateful if knowledgeable students would give help to students having trouble. Since my office is next door, feel free to get help from me.